

Name: _____

p1029: Box multiplication of linear binomials (v1)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

| * | $6x$ | 3 | |
|------|---------|------|-------------------------|
| $2x$ | $12x^2$ | $6x$ | $12x^2 + 6x + 24x + 12$ |
| 4 | $24x$ | 12 | Combine like terms. |
| | | | $12x^2 + 30x + 12$ |

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(2x + 5)$ and $(9x + 3)$.

| * | $2x$ | 5 | |
|------|------|-----|--|
| $9x$ | | | |
| 3 | | | |

ANSWER:

Question 2

Use the box method to multiply $(-6x + 2)$ and $(8x + 9)$.

| | | |
|------|-------|-----|
| * | $-6x$ | 2 |
| $8x$ | | |
| 9 | | |

ANSWER:

Question 3

Use the box method to multiply $(-2x + 5)$ and $(9x + 8)$.

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| * | | |
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ANSWER: